



CHECKLIST #0460 FOR THE APPROVAL OF: RAILINGS (STAIRS & BALCONY)

- ☐ Basic Requirements Checklist.
- ☐ One set of the manufacturer's 'approval document' including:
 - a) Section of all components including structural properties,
 - b) Dimension and spacing of all components, and
 - c) All connection details between components.
- ☐ Calculations for the structural integrity of the railing to sustain the loading conditions showing:
 - a) Bending, reaction and deflection of all members: post, picket, top-rail and bottom-rail for all loading conditions,
 - b) Details of all connections between railing components, including fasteners types, frequency and sizes, and
 - c) Anchoring method of posts considering the largest reaction.
- ☐ One set of manufacturer's design drawings marked and verified by the testing laboratory.

The following current laboratory tests and test reports in compliance with protocol PA 301.

Glazed Railing

- ☐ Impact test according to ANSI Z 97.1 with a load of 400 ft.lb. Three specimens are required. Glazing infill must remain in the frame after the test, and any resultant cracks shall not allow a 3" metal sphere to pass through.
- ☐ Static wind load test on complete assembly per PA202. Assembly consists of a minimum of 3 glass lites. Test shall be in both positive and negative directions. The test load shall be 2 times the design load with a recovery of 80%. One assembly is required after 06/01/97.

Balustrade & Plastic Railing

- ☐ Perpendicular to railing load test, with loading per conditions specified in sections 2305.7 & 2309 of the South Florida Building Code, on a minimum 8-ft section and 3 post. Test load shall be 2 times the design load, with minimum 80% recovery.
- ☐ Plastic Railing shall be tested and comply with all the requirements of the plastic checklist.

Revised: 08/30/97

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